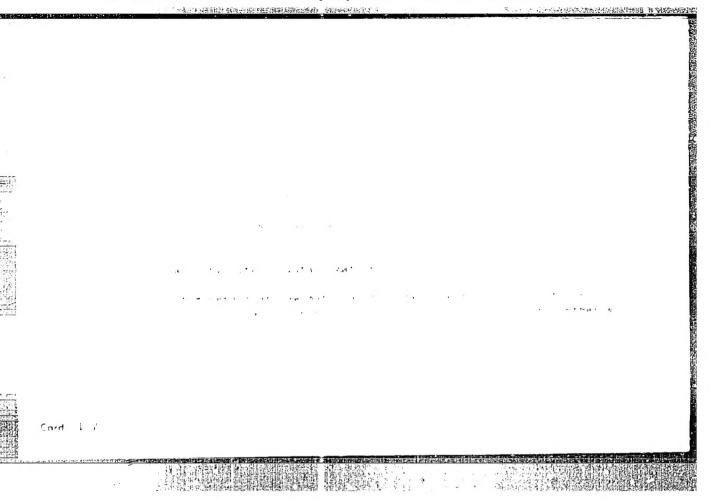
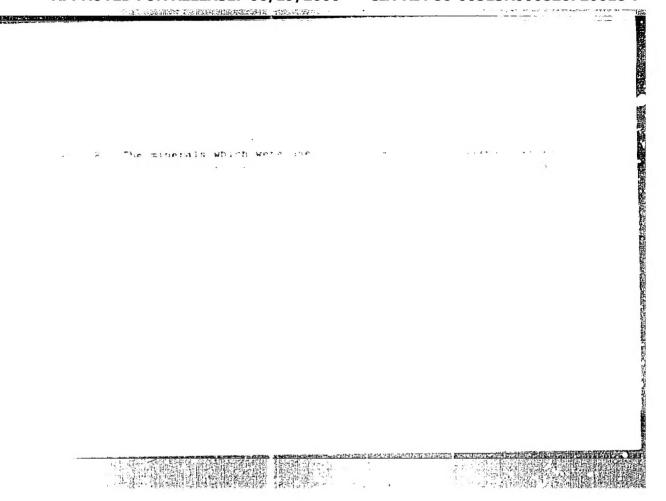
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KATTEMIKOVA. F. 1.

Extracts of nitrogen bases in muscle tissue and thier biological

significance. V11. The presence of anserine in the muscle of sheep. A.N. PARSHIN AND K.A. KFUPENNIKOVA. (DEPT. OF BIOCHEM. LENINGRAD BRANCHOF THE ALL-UNION INSTITUTE OF EXPERIMENTAL MEDICINE) vol.3, no.2, p. 169. 1938.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826720018-7"

E ... Truster of hy F. A.

USERChemistry - Organic chemistry

Card 1/1

Pub. 22 - 23/49

Authors

Krupennikova, K. A., and Sokol'skiy, D. V., Memb. Corr. Acad. of Sc.,

141. 33R

Title

Catalytic cyclization of ortho-nitroethyl benzene

Periodical :

Dok. AN SSSR 102/1, 93-95, May 1, 1955

Abstract

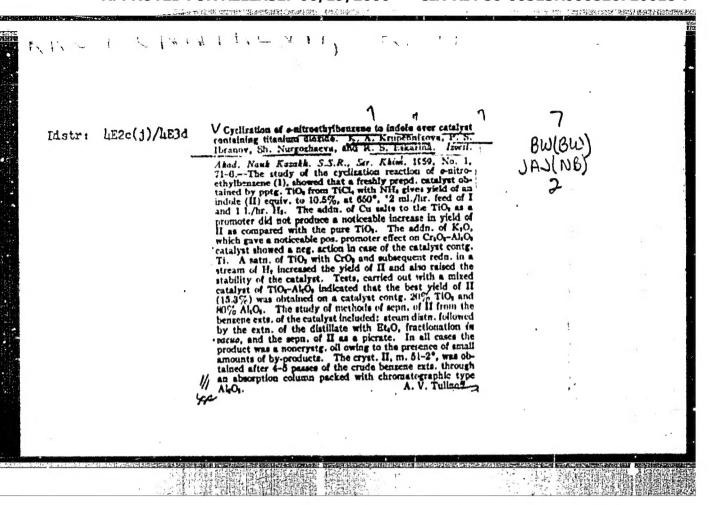
Experiments were conducted to determine the catalytic derivation of indole from direct cyclication of o-nitroenthyl benzene which reduces one stage of the synthesis process. The results obtained during the reaction over an aluminum silicate catalyst (of petroleum cracking application) saturated with chromium anhydride and activated with KOH are listed. Maximum indole yield was obtained at a molecular ratio of o-nitroethyl benzene: hydrogen of 1:1. Seven references: 4 USSR and 3 USA (1936-1951). Tables.

Institution :

The Kazakh State University im. S. M. Kirov

Submitted

November 14, 1954



GUIOROV, Mikhail Maksimovich, dots.; KRUPERNIKOVA, L.I., assisten

[Principles of electric lighting engineering and light sources] Osnovy svetotekhniki i istochniki sveta. Moskva, Mosk. energeticheskii in-t. Pt.1. 1962. 148 p. (MIRA 17:5)

1. Kafedra svetotekhniki i istochnikov sveta Moskovskogo energeticheskogo instituta (for Gutorov).

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826720018-7"

BELKIN, A.; BORISOV, A.; GENIN, B.; GUSLITSER, I.; GRUZDEV, V.; DICH,S.;

DUSEYEVA, Ye.; YEGOROVA, A.; ZAK, S.; KAZYMOV, A.; KRUPENNIKOVA,Ye.;

KONKIN, A.; MOGILEVSKIY, Ye.; PAKSHVER, A.; SMELKOV, G.;

CHICHKHIANI, A.; CHUGUNOV, K.; SHIPRIN, L.; YUNOVICH, E.

Sergei Alekseevich Tairov. Khim.volok. no.3:79 162.
(MIRA 16:2)
(Tairov, Sergei Alekseevich)

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to wie shown to be very close in composition to theoretical richterite. The supposition richterite was analyzed thermographically and the hanges conting were studied by of the arand x not a some position of synthesis and x not be error to taking needle to a composition of synthetic ampetitions are to error to be K. C. A. K. C. A. K. C. A. K. C. A. A. C. A. C. A. A. C. A

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swimmer, A.; fogeru, M.; Groromit, T.

Contributions to the selection of antibiotic producers. p. 95.

PRVI. TA DE CEITIE. Eucuresti, Rumania. Vol. 10, no. 2, Feb. 1959.

Fenthly List of Fast European Accessions. (FEAI), IC. Vol. 8, no. 9, Sept. 1959 Uncl.

KRUPENYA. A.V., inzh.

Operation of ASP- machines for gas cutting. Svar. proizv. no.2:38 f 60. (MIRA 13:6)

Ivanovkeiy saved avtokranov.
 (Gas welding and cutting—Equipment and supplies)

YEFETOV, V.M.; POTAPOVA, L.V.; KRUPENYA, A.V.

Results of combined resection in cancer of the stomach.

(MIRA 17:9)

Khirurgiia 39 no.10:24-31 0 63.

1. Iz khirurgicheskogo otdeleniya (zav. V.M. Yefetov) Krymskogo oblastnogo onkologicheskogo dispansera (glavnyy vrach O.D. Firsova), Simferopol¹.

CIA-RDP86-00513R000826720018-7

YEFETOV, V.M. (Sinforogol', us. Gogolya, ab. ;KRCPETOR, A.V.; FOTAPOVA, L.V.

Transperitored total gastronemy in stemath cancer. Vest.

khir. 99 no.4242-47 Ap V.L

1. Is khirurgisheskego otteleniya (zav. V.M. Yaret.w) Krymskego oblastnego onkologienoskego disprinsera (glavnyy vrach O.D.Firocva),g. Simferopol'.

I SHI WAR THE

CIA-RDP86-00513R000826720018-7

INVENTOR: Mashnikov, Yu. I.; Lebedev, O. N.; Treskov, V. V.; Mozenberg, T. X.; Bakulin, A. I.; Boyko, I. I.; Krupenya, B. I.

ORG: Bone

TITLE: A mechanism for forced impact destruction of a disphragm. Class -7, 50, 189310

SOURCE: Izobreteniya, promyshlennyye obrastsy, tovarnyye anaki, no. 22, 1966, 140

TOPIC TAGS: pneumatic device, gas pressure

ABSTRAUT: This Author's Certificate introduces a mechanism for forced impact destruction of a disphragm. The unit consists of a striker and a ball catch which holds the striker in the cocked position. The kinetic energy of the striker is increased by rigid connection to a piston which uses gas pressure to move the striker after the ball catch is released.

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では、いつとのおり、2の時間にはおけばは

TOPCHIYEVA, K.V.; MOSKOVSKAYA, I.F.; BODROVA, L.G.; KRUPZNYA, E.I.

Studying the nature of the activity of aluminosilicate catalysts.

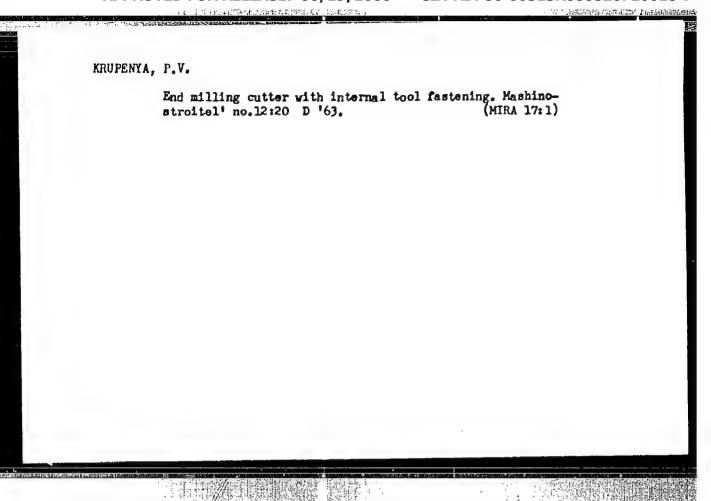
Vest Mosk. un. Ser. mat., mekh., astron., fiz., khim. 14 ne.2:

225-235 '59 (MERA 13:3)

1. Kafedra fizicheskoy khimii Moskovskogo gosuniversiteta. (Catalysts) (Aluminosilicates)

KRUPENYA, P.V.

Improving the grinding of taps. Stan. ! instr. 36 no.8127 Ag | 65. (MIRA 1819)



KRUFENIA, P.V. [Krupenya, P.V.]

Cooling of instruments by pulverized liquids. Ratsionalizatsia 13 no.4:22 '63.

Gooling cu F '63.	tting tools with sprayed fluids. (Metal-outting tools-Cooling	(WILL TO!)

BUDYAK, N.F.; VORONOVICH, S.A.; KRUPFNYA, J.I.

Neutral tar lubricant from the power-engineering refinement of lignite. Khim. 1 tekh. topl 1 masel 9 no.8:37-41 Ag '64.

(MIRA 17:10)

1. Podmoekovnyy nauchno-issledovatel skiy 1 proyektno-konstruktorskiy ugol'nyy institut.

KRUTER YE, Yu.L., kand.tekhn.nauk

Calculation of the inductive impedance of a coil with an opencircuited agnetic system (core) in the firm of a circular steel rod. Izv.vys.ucheb.zav.; energ. 3 no.10:40-46 0 160. (MIRA 13:11)

1. Sredneaziatskiy politekhnicheskiy institut. (Cores (Electricity)) (Electric coils)

KOSHELEV, V.7 SHCHEGOLEV, M.; SAAN, Kh.; KIRILYUK, P.; IVANOV, A.; SAVELENKO, I.;
KRUPETS, A.; KOHTATEV, A.; BARMAROV, V.; MIKOLATENEG, A.; LUKASHOV, A.

Our strength resides in collective labor. Mast. ugl. 8 no.8:15-15
(MIRA 12:12)

1. Pyatyy uchastok shakhty "Novodrusheskaya" tresta Lisichanskugol'.

(Lisichansk--Coal miners)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826720018-7"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826720018-7

POLIKHAT, 2.S.: KRUPEY, S.A.

Developing the well-bottom zone by the implosion metrod.

Neft. khoz. 43 no.2:41-45 F '65. (MIRA 18:4)

AL'PERIN, P.M.; KRUPIANKO, V.Ye.; LOGINOVA, F.I.

Use of an alcohol-glucose solution of albumin in diseases of the

gastrointestinal system. Probl. gemat. i perel. krovi 5 no. 8:44-48 Ag 160. (MIRA 14:1) (BLOOD PLASMA SUBSTITUTES) (ALIMENTARY CANAL—DISEASES)

KRUPICKA, J.

CRECEGELOVAKIA

HOLY, A. | ERUPICKA, J. ; ASSOLD, L.

Institute of Organic Chemistry, Caschenlavak Academy of Sciences, Progue

Progres, Collection of Creshoelerch Chemical Communications, No 12, Dec 1965, pp 4127-4141

"The pularegraphic behavior of polymethicism solts."

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826720018-7

KRUPICA, M.

LHK horizontal forgine machines. p.226. (Strojirenska Vyroba, Vol. 5, No. 5, May 1957, Praha, Czechoslevakia)

SC: Monthly List of East European Accessions (ETAL) IC. Vol. 6, No. 9, Sept. 1957. Uncl.

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KRUPICA, N.

LKM crank forging presses. p.272. (Strojirenska Vyroba, Vol. 5, No. 6, June 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) IC. Vol. 6, No. 9, Sept. 1957. Uncl.

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KRUPICA, M.

"Forming machines of the E. W. Bliss Company, U. S. A.

p. 585 (Strojirenska Vyroba) Vol. 5, no. 12, Dec. 1957 Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (SEAI) LC. Vol. 7, no. 4, April 1958

RESPICA, Y.

The LLT 160/1100 double-standard toggle lever press. p. 601. (STRCJEGNSTVI, Vol. 7, No. 3, Aug 1957, Praha, Czechoslovakia)

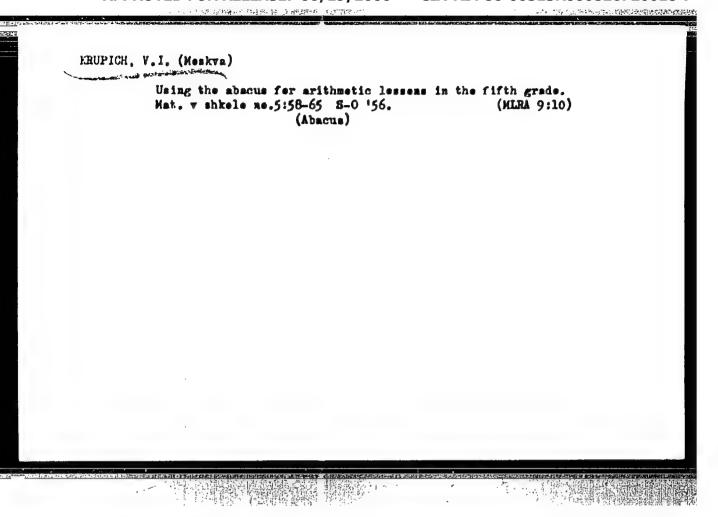
SO: Monthly List of East European Accessions (HEAL) LO, Vol. 6, No. 12, Dec 1957. Uncl.

EUPICHE, J.; MCEF, J.

"(xidations with chromium (VI) oxide. VII. Mechanism of oxidation of secondary alcohols." (In English)

COLLECTION OF CERCUSLOVAK CHEMICAL COMMUNICATIONS. Praha, Czechoslovakia, Vol. 23, no. 11, Nov. 1952

Monthly list of EAST FURCEEAN ACCESCIONS (EMAI), IC, Vol. P, No. 7, July 1959, Unclas.



Exercises with the arithmetic slide rule and adding machine.

Uch, sap. MOPI 116:139-155 '58. (MIRA 12:9)

(Calculating machines) (Slide rule)

Study of the slide rule in an algebra course in secondary schools.

Uch. zap. MDFI 151:268-279 '60. (MIRA 16:5)

(Slide rule)

(Mathematica Budy and teaching)

ORDHICHEOVSKIY, V.V., kand.med.nauk; DOVZHANSKIY, S.J., kand.med.nauk; KRUPICHEVA, A.A.

Reiter's syndrome with ankylosing spondyloarthritis. Vest. derm. 1 von. 38 no.6130-31 Je 164. (MIRA 18:6)

1. Sochinskiy nauchno-Issledovatel'skiy Institut kurcrtologii i fizioterapii (dir. - zasluzhennyy vrach RSFSR N.Ye.Romanov) Ministerstva zdravookhraneniya RSFSR.

ZALMAN, E.; FOLACKOVA, J.; KRUPICKA, B.

Effect of psychoton on normal subjects. Lek.listy 6 no.1:19-23 1 Jan 51. (CIML 20:5)

ZALMAN, R.; KRUPICKA, B.; POLACKOVA, J.

Cerebrospinal, venous and arterial pressure in intravenous administration of massive doses of benxedrine. Cas.lek.cesk. 90 no.19:583-585 11 May 51. (CIML 20:8)

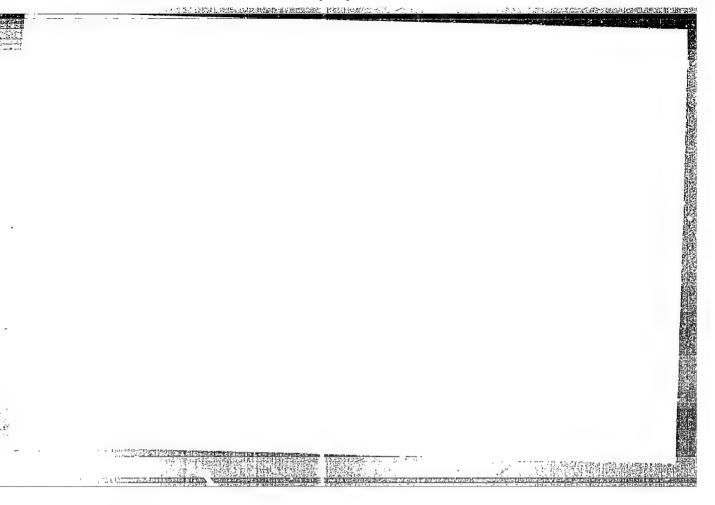
1. Of the State Psychiatric Hospital in Brno-Cornovice (Director-Emil Zalman, H.D.).

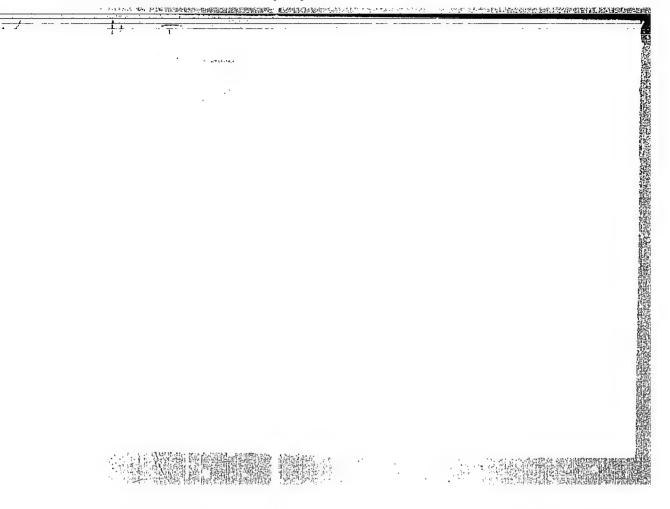
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JADRNICKOVA, Ludmila; KRUPICKA, Josef

Polarographic determination of terephthalic acid by rear-rangement of potassium phthalate. Chem prum 13 no.11:575-577 N*63.

1. Ustav teoretickych zakladu chemicke techniky, Ceskoslovenska akademie ved, Praha (for Jadrnickova). 2. Ustav organicke chemie a biochemie, Ceskoslovenska akademie ved, Praha (for Krupicka).





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CZECHOSLOVAKIA/Analytical Chemistry - Analysis of Organic Substances. E-3

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 14234.

Author : Zuman Petr, Krupicka Josef

Inst

Title : Polarographic Method of Studying the Interaction of Periodic

Acid with Glycols.

Orig Pub: Chem. listy, 1957, 51, No 3, 424-432.

Abstract: The method of polarographic determination of periodic acid

(I) is utilized for a continuous study of the interaction of salts of I with glycols. The advantage of the above-stated method is its speed which permits to study the kinetics of the reaction, as well as its specific nature, small expenditures of materials and the possibility of determining of a number of substances. A vessel is described which makes it possible rapidly to add and withdraw the solutions, effect rapid and efficient agitation and to eliminate, as

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CZECHOSLOVAKIA/Analytical Chemistry - Analysis of Organic Substances. E-3

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 14234.

far as practicable, contact of dropped off mercury with the solution of I. The above-described method is applicable in the analyses of mixtures three-and errthrospiners of 1,2-diols having an open chain. The method is also suitable for a polarographic determination of different alcohols.

Card : 2/2

CZECHCSLCVAKIA/Organic Chemistry. Theoretical and General Questions on Organic Chemistry.

G-1

Abs Jour: Ref Zhur-Khin., No 13, 1958, 43207.

: Zuman Petr, Jicher Jiri, Krupicka Jesef, Svoboda Author

Miroslav.

: Stereochemical Studies. VII. Oxidation of Diastereo-Inst Title

isomeric Diols of RCH(OH)CH(OH)R' Type with Periodate.

Orig Pub: Chen. listy, 1957, 51, No 6, 1068-1081.

Abstract: Polarographic study (see Communication VI, RZhKhim, 1956, 78180) of the rate of oxidation of nine pairs of acyclic diols of RCH(OH)CHCHR' type with periodate at different pH (2-7.9) and diol concentration (6 . 10-3 - 9 . 10-1 M). Investigated were ethylene glycol (I), three- and erythro-isomers of

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1

CZECHOSLOVAKIA/Organic Chemistry. Theoretical and General Questions on Organic Chemistry.

G-1

Abs Jour: Ref Zhur-Khim , No 13, 1958, 43207

butandiol-2,3, hexandiol-3,4, octandiol-4,5, l-phenylpropandiol-1,2, l-phenylbutandiol-1,2, l-phenyl-3-methyl-butandiol-1,2, and also of threo-l-cyclohexyl-propan-1,2-diol (III), MP 79-80° (from iso-(C;H7)20 or ether), and erythro-1-cyclohexyl-propandiol-1,2 (IV), MP 67-68° (from petroleum ether). III and IV were obtained by hydrogenation of threo- and erythro-II in alcohol solution containing HCl, over PtO, at 20° and 760 mm. In the case of reaction velocity and pH (RZhKhim, 1956, 15620), was verified. Reactions of the other diols are acid-base reactions of second order. Reaction velocity is determined, apparently, by proton displace-

Card : 2/3

CZECHOSLOVAKIA/Organic Chemistry. Theoretical and General Questions on Organic Chemistry.

G-1

Abs Jour: Ref Zhur-Khim., No 13, 1958, 43207.

ment taking place after the interaction of diol with NaIO4. A refutation is presented of the assumption that the determinant stage is the decomposition of the cyclic intermediate product of interaction of diol and HIO4 or IO4, direct interaction of diol with NaIO4 or ionization of diol, preceding the reaction with NaIO4. At all values of concentration and pH the three-epimers are oxidized more rapidly than erythre-epimers. Thus, from the rate of oxidation it is possible to determine the configuration of substances of this type.

Card : 3/3

2

CZECHOSLOVAKIA/Analytic Chemistry. Analysis of Organid Substances.

Abs Jour: Ref Zhur-Khim., No 23, 1958, 77364.

Author : Zuman P., Krupicka J.

Inst Title

: A Polarographic Method for the Study of Glycol

Fission by Periodic Acid.

Orig Pub: Collect. czechosl. chem. commun., 1958, 23, No 4,

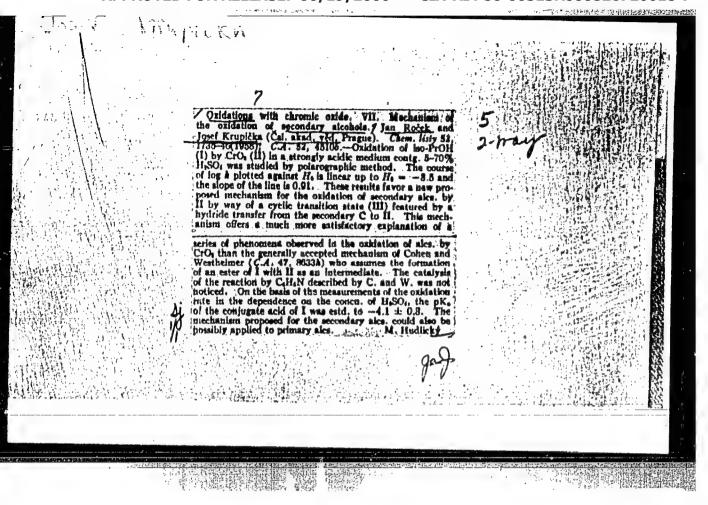
598-607.

Acitract: See RZhKhin, 1958, 14234.

Card : 1/1

Country : Czechoslovakia · G-1 Catogory : Organic Chemistry. Theoretical Organic Chemistry Abs. Jour. : Ref. Zhur.-Zhimiya No. 6, 1950 19286 : Zimen, P.; Sicher, J.; Krupicka, J.; Svoboda, M. Author Institut. : Stereochemical Studies. VII. Periodate Oxidation Title of Diastereoisomeric Diols of the Type R.CH(OH). CH(OH).R'. : Collect. czechosl. chem. commun., 1958, 23, No 7, 1237-1251 Orig Pub. Abstract : See RZhKhim, 1958, 43207. Card: 1/1

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: CZECHOSLOVAKIA COUNTRY : Physical Chemistry. Electrochemistry CATEGORY 1960, No.621 : RZKhim., No. 1 ABS. JOUR. : Krupicka, J.; Kadlec, J. AUTHOR Polarographic Method of Direct Study of Oxidation under Influence of Chromic Acid INST. TITLE : Chem. listy, 1958, 52, No 12, 2278-2284; Collect. Gzechosl.Chem.Communs, 1959, 24, No 6, 1783-1790 ORIG. PUB. : In strong acid solutions of H2SO, and CH3COOH, chromic acid gives the polarographic wave of ABSTRACT reduction. The height of the wave corresponds to a 3-electron reduction to Gr (+3) and depends linearly on the concentration of chromic acid at concentrations of H2SO1 from 3.8 to 14.3 M. This wave may be used for continuous observation of the decrease of chromic acid in oxidation of alcohols. The maxima of the second 1/3 CARD: B-45

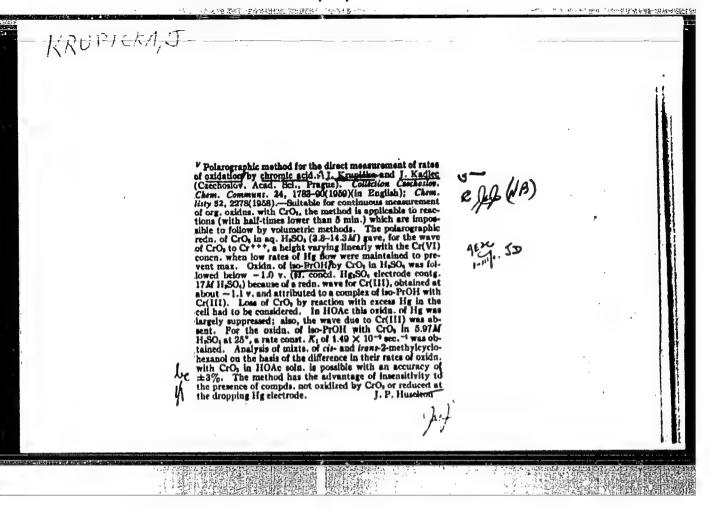
 $\overline{\mathbf{B}}$ COUNTRY CATEGORY 1960, No. 621 RZKhim., No. 1 ARS. JOUR. AUTHOR : INST. TITLE ORIG. PUB. : : order were observed and therefore the investi-ABSTRACT cont'd gations were effected at a slow rate of discharge of Hg. In the oxidation of isopropyl alcohol a wave of about -1.1 v was observed, which was attributed to the reduction of the complex of Gr (+3) with isopropyl alcohol.

The method was applied to the study of the rate of oxidation of isopropyl alcohol and for the analysis of a mixture of the isomers CARD: 2/3

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LHOTAK, J.; PELLANT, A.; NOVOTNY, J.; KHUPICKA, J.

Surgical treatment of congenital broncho-esophageal fistula in an 18-month-old infant. Cesk.pediat.15 no.10:905-912 0'60.

1. Oddeleni detske, klinicka sakladna UDL, ORL, chirurgicke a rtg nemocnice OUNZ v Havlickove Brode.

(ERONCHIAL FISTULA in inf & child) (ESOPHAGEAL FISTULA in inf & child)

KRUPICKA, J.; NOVAK, J.J.K.

Polarographic determination of methylglyoxals. Coll Cz Chem 25 no.5:1275-1280 My '60.

1. Abteilung für organische Synthesen, Chemisches Institut, Tschechoslowakische Akademie der Wissenschaften, Prag.

PARKAS, J.; KOMRSOVA, H.; KRUPICKA, J.; NOVAK, J.J.K.

Relation between the chemical structure and insecticidal activity in pyrethroid compounds. IV. Effect of the substituent of the side chain in the process of the Laforge cyclization. Coll Cs Chem 25 mo. 7:1824-1836 Jl *60. (EEAI 10:9)

1. Abteilung für organische Synthesen, Chemisches Institut, Tschechoslowakische Akademie der Wissenschaften, Prag.

(Pyrethroids) (Ring closure)

RUDINGER, J.; KRUPICKA, J.; ZAORAL, M.; CERNIK, V.

Amino acids and peptides. XXX.Alkaline hydrolysis of the phthalimido group in phthalylamino acids and their derivatives; a polarographic study. Coll Cs Chem 25 no.12:3338-3343 D *160.

(EEAI 10:9)

1. Department of Organic Synthesis, Institute of Chemistry, Csechoslovak Academy of Science, Prague. 2. Present address: Faculty of Nuclear Physics, Charles University, Prague(for Cernik).

(Amino acids) (Peptides) (Phthalimide) (Phthalyl amino acids) (Polarograph and polarography)

SIPOS, F.; KRUPICKA, J.; TICHY, M.; SICHER, J.

Stereochemical studies. Part 23: The 4-t-butyl-2-methylcyclohexanols, their synthesis and rate of chromic acid oxidation. Coll Cz Chem 27 no.9:2079-2089 S 162.

1. Institute of Organic Chemistry, and Biochemistry, Gzechoslovak Academy of Sciences, Prague.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826720018-7"

ZEMLICKA, J.; KRUPICKA, J.; ARNOLD, Z.

Self-condensation of triformylmethane to 1,3,5-triformylbenzene. Coll Cz chem 27 no.10:2464-2467 0 *62.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000826720018-7"

SETINEK; RATHOUSKY, J.; KRUPICKA, J.

The course of hydrolysis of some organic anhydrides and their solubility in water, Coll Cs Chem 27 no.11:2694-2699 N '62.

1. Institut fur theoretische Grundlagen der chemischen Technik und Institut fur organische Chemie und Biochemie, Tschechoslowa-kische Akademie der Wissenschaften, Prag.

KRUPICKA, J.

Z

CZECHOSLOVAKIA

ZAVADA, J; KRUPICKA, J; SICHER, J.

Institute of Organic Chemistry and Biochemistry of the Czechoslovak Academy of Sciences, Prague (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 7, 1963, pp 1664-1673

"Stereochemical Studies. XXVI. Determination of the Stereoohemistry of Vicinal Dibromides by Polarographic Reduction."

02200000107.JIIA

MRUPICKA, J; ZAVADA, J; SICKER, J.

Institute of Organic Chemistry and Biochemistry of the Szec sployak Academy of Sciences, Tragae (for all)

Frague, Collection of Czechoslovak Cheglial Communications, No 10, 1365, ht 3570-3574

"Stereochemical Studies. XXXV. The Palarographic Reduction of C, cloalkyl Browides: $E_{1/2}$ Values and Nechanism."

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000826720018-7

20

L 38500-66 ENT(F)/T DJ/ME

ACC NR: APG006162 (A) SOURCE CODE: CZ/0078/65/000/010/0021/0021

AUTHOR: Krupicka, Jaroslav; Jerabek, Zdenek (Kladno)

ORG: none

TITLE: Reciprocating valveless engine with dual piston motion. CZ Pat.

No. PV 6531-64

SOURCE: Vynalezy, no. 10, 1965, 21

TOPIC TAGS: engine crankshaft, engine piston, engine cylinder

ABSTRACT: An Author Certificate has been issued for a four-cycle valveless reciprocating engine with a dual, i.e., reciprocating and rotary, motion of the working piston. The motion of the piston controls the injection exhaust ports in the working cylinder. The dual motion is accomplished by specially designed crankshaft bearings housed in the lower section of the working cylinder. The reciprocating piston engages the crankshaft through the connecting rod, while the crankshaft's bevel gear meshes with another bevel gear fastened to the stationary bottom

Card 1/2

and the second second	حدد لسماء	who ovilinde	r's bottom, as well as on the piston.	1416
flywheel's cylinder.	rotat	fon axis is	gynchronized with that of the working	KP]
SUB CODE:	21/	SUBM DATE:	24иолен/	1
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KRUPICKA K.

CZECHOSLOVAKIA / Chemical Technology, Chemical Products and their Applications. Treatment of Solid Fuels

H-22

Abs Jour

: Ref Zhur - Khimiya, No 11, 1958, 37441

Author

: Medricky Z, Krupicka K.

Inst

: Not given

Title

: Hard Pitch as a Raw Material for the Production of

Electrode Carbon

Orig Pub

: Paliva, 1957, 37, #10, 336-339

Abstract

: Presentation is made of an industrial scheme for a continuous production of the pitch from tars, by means of blowing air through them. Also presented are process characteristics, physical and chemical properties of the resulting products and their dependence on the method of air blowing. Stated are also considerations for process

Card 1/2

2

CZECHOSLOVAKIA / Chemical Technology, Chemical Products and H-22 their Applications, Treatment of Solid Fuels

Abs Jour : Ref Zhur - Khimiya, No 11, 1958, 37441

Abstract : rationalization and for quality improvement of pitch

used in the Electrode carbon manufacturing,

Card 2/2

KRUPICKA, SV9TOPLUK

CZECHOSLOVAKIA / Magnetism. Ferrites.

F-6

Abs Jour : Ref Zhur - Fizika, No 3, 1957, No 6871

Author

: Krupicka, Svatopluk

Inst

: Institute of Technical Physics, Czechoslovak Academy of

Sciences, Prague, Czechoslovakia,

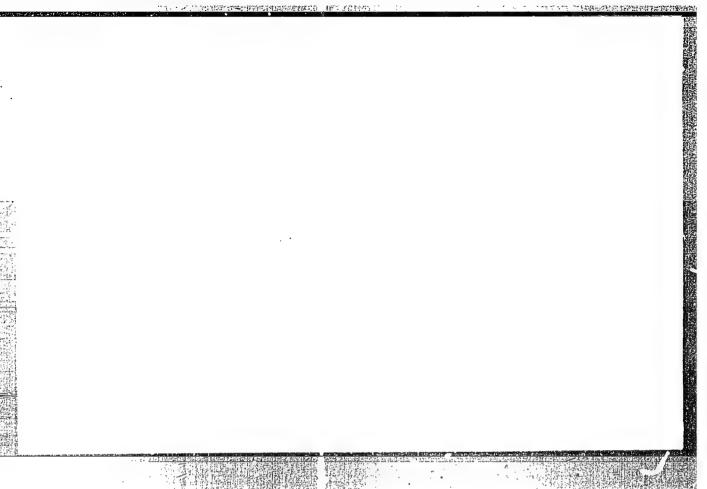
Title

: Concerning the Problem of the Effective Internal Field in Ferromagnetic Resonance in Polycrystalline Ferrites.

Orig Pub : Ceskosl, casop, fys., 1956, 6, No 4, 401 - 408

Abstract : A study was made of ferromagnetic resonance in Mn-Zn-ferrites in the temperature range from -124 to 1820 at a wavelength of 3 cm. The effective internal field and its temperature dependence were determined. Comparison with results of simultaneous measurements of the initial susceptibility indicates a slose connection between the anisotropy of the orystal and the supplementary field or with the apparent change in the g-factor. Bibliography, 32 titles.

: 1/1 Card



CZECHOSLOVAKIA/Magnetism - Ferrites and Ferrimgnetism.

Abs Jour

: Ref Zhar - Fizika, No 6, 1959, 13239

Author

: Baoz, J., Bergstein, A., Krupicka, S., Vintera, J.,

Zaveta, K.

Inst

: Institute of Technical Physics, Czechoslovak Academy of

Sciences, Prague, Czechoslovakia

Title

: Influence of the Method of Preparation on Certain Magne-

tic Properties of Manganese-Zinc Ferrite.

Orig Pub

: Chekhosl. fiz. zh., 1957, 7, No 1, 66-79.

Abstract

: The authors have investigated the influence of temperature and the annealing temperature on the magnetic properties of manganese-zinc ferrites with an excess of manganese. It was possible to correlate the augmetic properties with the structure and chemical composition of the specimens.

Card 1/1

KRUPICKA, S.

Contribution to the study on ferromagnetic resonance of manganese zinc ferrites.

P. 240, (Ceskoslevensky Casopis Fre Fysiku) Vol.7, no.3, 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Acessions (EFAI) Vol. 6, Ne. 11 November 1957

CZECHOSLOVAKIA/Magnetism - Ferrites and Ferrimagnetism.

Abs Jour

: Ref Zhur - Fluika, No 6, 1959, 13247

Author

: Krupicka, Svatopluk

Inst

: Institute of Technical Physics, Czechoslovak Academy

of Sciences, Prague, Czechoslovakia

Title

: On the Study of Ferromagnetic Resonance in Manganese-Zinc

Ferrites.

Orig Pub

: Chekhosl. fiz. zh., 1957, 7, No 3, 344-350

Abstract

: A study was made of the temperature dependence of ferromagnetic resonance for three specimens of manganese-zing ferrite at 9300 Mcs. The results are discussed from the point of view of the Tsui model for the additional inter-

nal field produced in ferromagnetic resonance.

Card 1/1

CZECHOSLOVAKIA/Magnetism - Ferrites and Ferrimagnetism.

Abs Jour : Ref Zhur - Fizika, No 6, 1959, 13250

Author : Krupicka, Svatopluk; Vilin, Frantisek

Inst: Title: Magnetic Viscosity of the Richter Type in Manganese-

Ferrite.

Orig Pub : Ceskosl. casop. fys., 1957, 7, No 6, 694-698

Abstract : See Referat Zhur Fizika, 1959, No 1, 1096.

Card 1/1

. 74 .

CZECHCSLOVAKIA/Magnetism - Ferrites and Ferrimagnetism

F-6

Abs Jour: Ref Zhur - Fizika, No 1, 1959, No 1096

Author : Krupicka Svatopluk, Vilim Frantisck

: Institute of Technical Physics, Czechoslovak Academy of

Sciences, Prague, Czechoslovakia

Title : Richter-Thpe Magnetic Aftereffect in Manganese Ferrite.

Orig Pub: Chekhosl. fiz. zh., 1957, 7, No 6, 723-728

Abstract : A study was made of magnetic relaxation in specimens of non-

stoichiometric manganese ferrites by measuring the temperature dependence of the magnetic susceptibility and the loss angle at frequencies of 50, 100, and 200 kcs. The high values of the activation energy and the absence of a pronounced dependence on the defect or excess of exygen in the ferrite indicate that the exchange of electrons between two and three valent ions of iron cannot be the main cause for the observed aftereffect. A hypothesis is advanced that

the observed aftereffect is determined essentially by the

Card : 1/2

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"APPROVED FOR RELEASE: 06/19/2000

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CZECHOSLOVAKIA/Magnetism - Ferrites and Forrimagnetism

F-6

Abs Jour: Rof Zhur - Fizika, No 1, 1959, No 1096

electron exchange between the manganese ions of different valence. This hypothesis is in agreement with the experiment on the study of acoustical resonance in $\mathrm{Mn_2O_{l_1}}$. Ye.Z. Mazel'

Card : 2/2

CZECHOSLOVAKIA/Magmetism - Forrites and Ferrimagnetism.

Abs Jour : Ref Zhur - Fizika, No 6, 1959, 13249

Author : Krupicka, Svatopluk

Inst :

Title : Concerning the Problem of Magnetic Viscosity of the

Richter Type in Ferrites.

Orig Pub : Ceskosl. casop. fys., 1957, 7, No 6, 747

Abstract : Sec Referat Zhur Fizika, No 12, 27690.

Card 1/1

CZECHOSLOVAKIA/Magnotism - Ferrites and Ferrimagnetism

F-6

Abs Jour : Rof Zhur - Fizika, No 12, 1958, No 27690

Author & Krupicka Syntopluk

Inst Institute of Technical Physics, Pragus, Czechoslovakia Title : A Note on Richter-Type Magnetic Relaxation in Ferrites

Orig Pub : Chokhosl. fiz. zh., 1957, 7, No 6, 769

Abstract: It has been established that the energy of activation E and the relaxation constant Tonin ferrites are connected by linear relation: E = h log T-2 + B, where h and B are the characteristics of the given type of interial and of the given rechanism of diffusion relaxation.

Card : 1/1

35

CZECHOSLOVAKIA/Magnetic Resonance - Ferromagnetic and Anti-

Ferromagnetic Resonance

Abs Jour : Ref Zhur Fizika, No 4, 1960, 9013

Author : Krupicka Svatopluk

Inst
Title : On the Theory of Resonance Line Width in Ferrites

Orig Pub : Czechosl. phys. zh., 1958, 8, No 5, 613-614

Abstract : See Abstract 9012.

Card 1/1

- 92 -

Krupička, Svatopluk CZ/37-58-5-16/19 AUTHOR:

On the Theory of the Width of Resonance Bands in Ferrites (K teorii sirky resonanchi cary u ferritu) TITLE:

PERIODICAL: Československý Časopis pro Fysiku, 1958, Nr 5, p 627 (Czech)

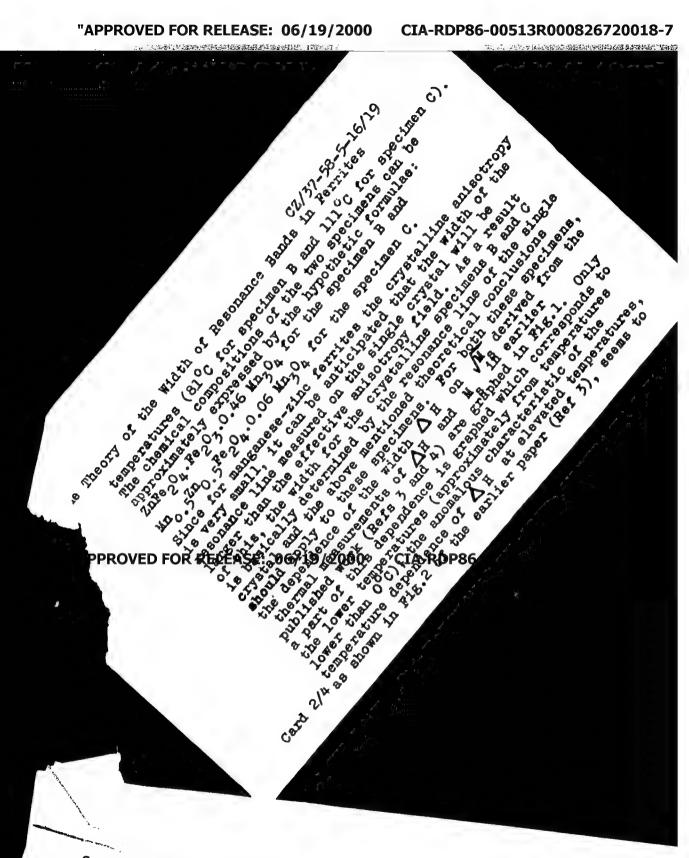
ABSTRACT: From the theoretical considerations the following main conclusions can be drawn:

a) the width Δ H should increase with the square root of the saturation magnetisation;

b) for otherwise equal material AH increases with increasing mean square deviation of the effective field of the exchange forces and with decreasing Curie

temperature. For verifying these conclusions experimentally, the non-stoichimetric manganese-zinc ferrites studied by the author in earlier work (Ref 3) were considered most suitable. The specimens designated by B and C in those papers had a fully similar characteristic of the dependence of the saturation mangetisation on the reduced

temperature T/T (Ref 4). However, as a result of Card 1/4 differing oxygen contents they had differing Curie



On the Theory of the Width of Resonance Bands in Ferrites cz/37-58-5-16/19

governed by a different phenomenon. are satisfactorily linear; the fact that the dependence is linear but not directly proportional as would follow from the theory can at least partly be explained by the dependence of the width on the ratio H/4 TW (Ref 2).

The Perminvar Effect and Magnetic After-effect in Magnesium Manganese Ferrite investigated some of the conditions for the existence of the perminvar effect and its connections with relaxation Mgo. 75Mno. 35Fel. 80t.

The theory of magnetic after-effects

Although in the case of nas been worked out by Neel for delron containing some interstitials (mainly carbon). Although in the case of ferrites; no exact model of the diffusion processes is known, the general results of Néel's theory can, neverthe-Actions, the general results of Neel's theory can, neverthed of the sample in a magnetic field can be described on the sample of the motion of a single affective Block-wall OI the sample in a magnetic fletd can be described on This is annivalent to assuming that each wall moves in This is equivalent to assuming that each wall moves under the action of a mann magnatic field denonding on the mann This is equivalent to assuming that each wall moves under the action of a mean magnetic field depending on the mean the mean the mean affective magnetic induction of the sample "B" The mean effective written us: Card If we determine the value of the effective field h(t) 2/4 from the permine the value of the effective field h(t) stabilising times to, t, we obtain Eq (12): 3R00082672

CZ/37-58-5-16/19 Krup' ka. Svatopluk AUTHOR: ry of the Width of Resonance Bands in Ferrites 0 TITLE: ířky resonanční čáry u ferritů) ensky Casopis pro Fysiku, 1958, Nr 5, PERIODT (ch) theoretical considerations the following main ABSTRA conclusions can be drawn: a) the width $\Delta \mathtt{H}$ should increase with the square root of the saturation magnetisation;
b) for otherwise equal material AH increases with increasing mean square deviation of the effective field of the exchange forces and with decreasing Curie For verifying these conclusions experimentally, the temperature. non-stoichimetric manganese-zinc ferrites studied by the author in earlier work (Ref 3) were considered most suitable. The specimens designated by B and C in those papers had a fully similar characteristic of the dependence of the saturation mangetisation on the reduced temperature T/T (Ref 4). However, as a result of differing oxygen contents they had differing Curie

cz/37-58-5-16/19 he Theory of the Width of Resonance Bands in Ferrites temperatures (81°C for specimen B and 111°C for specimen C). The chemical compositions of the two specimens can be approximately expressed by the hypothetic formulae: ZnFe204.Fe203.0.46 Mn304 for the specimen B and Mn_{0.5}Zn_{0.5}Fe₂O₄.0.06 Mn₃O₄ for the specimen C. Since for manganese-zinc ferrites the crystalline anisotropy is very small, it can be anticipated that the width of the resonance line measured on the single crystal will be larger than the effective anisotropy field. As a result of this, the width for the crystalline specimens B and C is basically determined by the resonance line of the single crystal and the above mentioned theoretical conclusions crystal and the above mentioned theoretical conclusions should apply to these specimens. For both these specimens, the dependence of the width Δ H on \sqrt{M} derived from the thermal measurements of Δ H and M in earlier thermal measurements of Δ H. thermal measurements of ΔH and M in earlier published work (Refs 3 and 4) are graphed in Fig.1. a part of this dependence is graphed which corresponds to the lower temperatures (approximately from temperatures lower than O'C); the anomalous characteristic of the temperature dependence of AH at elevated temperatures, temperature dependence of the earlier paper (Ref 3), seems to

CZ/37-58-5-16/19

On the Theory of the Width of Resonance Bands in Ferrites

be governed by a different phenomenon. Both relations are satisfactorily linear; the fact that the dependence is linear but not directly proportional as would follow from the theory can at least partly be explained by the dependence of the width on the ratio H/47M (Ref 2). According to theoretical considerations, the direction of the straight line expressing the dependence of H on should be proportional to the mean square deviation of the exchange field. As can be seen from the graph, Fig.1, this direction angle is indeed larger for the specimen B which in view of the above mentioned chemical composition has a considerably larger number of vacancies in the crystal lattice than the specimen C and thus also a larger fluctuation of the exchange field. Equally, it can be seen from Fig.1 that the requirement of a larger resonance width AH for a material with a lower Curie temperature is fulfilled.

Card 3/4

On the Theory of the Width of Resonance Bands in Ferrites CZ/37-58-5-16/19 There are 1 figure and 6 references, 2 of which are Czech, 4 English.

(Note: This is a complete translation except for the

ASSOCIATION: Ustav technické fysiky CSAV, Praha (Institute of Technical Physics, Czechoslovak Ac.Sc., Prague)

SUBMITTED: April 25, 1958

Card 4/4

C4DCH/37-59-2-2/20

Jaromír Brož, Svatopluk Krupička, Bohumil Zitka AUTHORS:

TITLE: The Perminvar Effect and Magnetic After-effect in

Magnesium Manganese Ferrite

PERIODICAL: Československý Časopis Pro Fysiku, 1959, Nr 2, pp 124-132 (+ 1 plate)

ABSTRACT: Some ferro-magnetic materials show a hysteresis curve with a characteristically narrow central part. permeability of these materials in weak fields is practically independent of the field. These materials are called "Perminvars" (Ref 1). The theory of the perminvar effect has been studied by Kienlin (Ref 2). A stable perminvar effect can only be observed if the demagnetisation is carried out at a temperature sufficient for diffusion processes to occur rapidly and, thereafter, the material is cooked so that the stabilised state "freezes in". The diffusion processes leading to the stabilisation of the demagnetised state also lead to magnetic after-effects of the Richter type (Refs 4, 5). A connection between the two effects has been experimentally determined for a-iron (Refs 6, 7) and for some forritos (Refs 8,9,10). In the present work we have

The Perminvar Effect and Magnetic After-effect in Magnesium Manganese Ferrite

investigated some of the conditions for the existence of the perminvar effect and its connections with relaxation effects. We have used a ferrite of composition Mg0.75Mn0.35Fe1.804. has been worked out by Néel for a-iron containing some The theory of magnetic after-effects interstitials (mainly carbon). Although in the case of ferrites, no exact model of the diffusion processes is known, the general results of Néel's theory can, nevertheless, be used. Let us assume (Ref 7) that the behaviour of the sample in a magnetic field can be described on the basis of the motion of a single effective Bloch-wall. This is equivalent to assuming that each wall moves under the action of a mean magnetic field depending on the mean magnetic induction of the sample "B". The mean effective field of the magnetic after-effect can then be written as:

If we determine the value of the effective field h(t) from the perminvar effect according to Eq (9), for two stabilising times to, t, we obtain Eq (12):

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The Perminvar Effect and Magnetic After-effect in Magnesium Manganese Ferrite

 $h(t) - h(t_0) = \frac{h_{\infty}(B)}{1/\chi_{\infty} - 1/\chi_{0}} (1/\chi(t) - 1/\chi(t_0)).$ (12)

The measurements were taken at a temperature of -195 oc. The time-dependence of the permeability was measured with a field intensity of 10 moe and at a frequency of 200 kc/s. The hysteresis curve was determined by normal oscillographic methods with a magnetic field of amplitude Hm and frequency 50 c/s. Our experiments have shown that the perminvar effect is observed if the sample is demagnetised after cooling to liquid nitrogen temperature and after a certain time, necessary for the stabilisation of the demagnetised state, the magnetising field is applied. The observed effect was not stable. instability was independent of the speed of cooling the sample. If, on the other hand, the sample was demagnetised at room temperature and afterwards cooled to liquid nitrogen temperature, a weak perminvar effect occurred if the cooling was slow, while it was not observed if the sample was cooled rapidly. The optimum field for observing the effect was 0.60 Oe and this was used for

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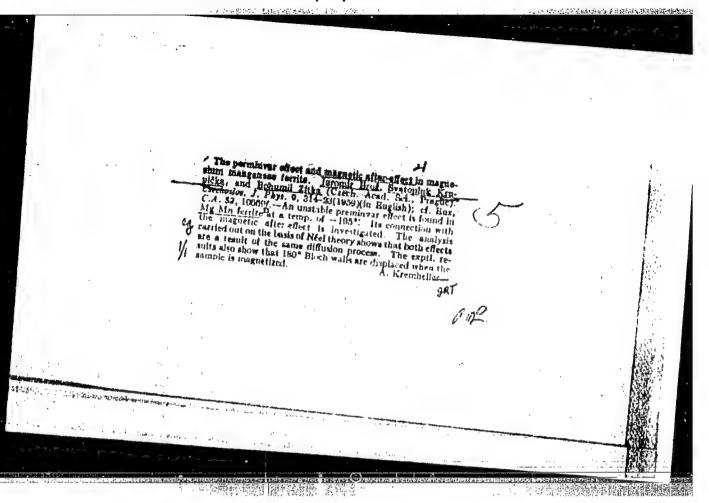
The Perminvar Effect and Magnetic After-effect in Magnesium

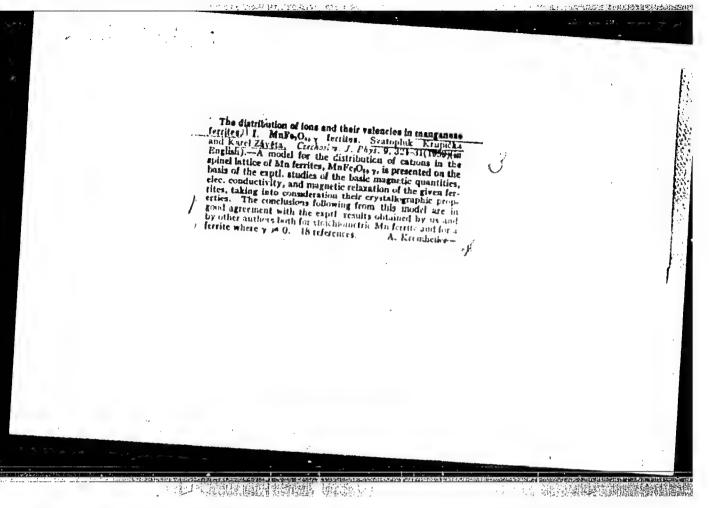
Subsequent measurements. The change in the perminvar effect with the stabilising time t is shown in Fig 4B effect on the duration v of the magnetising field.

From these measurements, the magnitudes Hp and h (see Eq (9) and Fig 3) were determined. h is shown in Fig 5 as a function of t and v. This figure also card 4/4 tion. All these curves show similar characteristics.

English, 1 Czech, 4 German and 3 French.

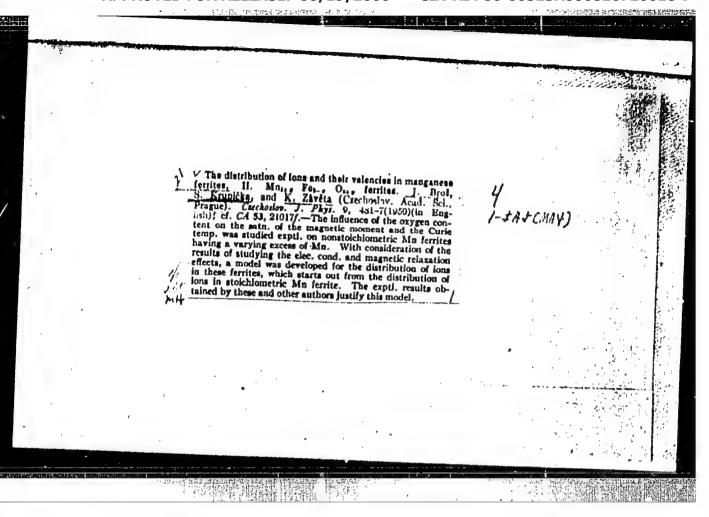
(Institute Tech. Phys., Ac. Sc., Prague)





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I

KEYEICKH = 5.

CZECHOSLOVAKIA/Radio Physics - Radiation of Radio Waves.

Transmission. Lines and Antennae

Abs Jour

: Ref Zhur Fizika, No 1, 1960, 1713

Author

: Hamal, K., Krupicka, S., Dusek, J., Michalik, D.

Inst Title

: Certain Applications of Type MnMg Ferrites in Micro-

wave Technology

Orig Pub

: Slaboproudy obzor, 1959, 20, No 5, 287-292

Abstract

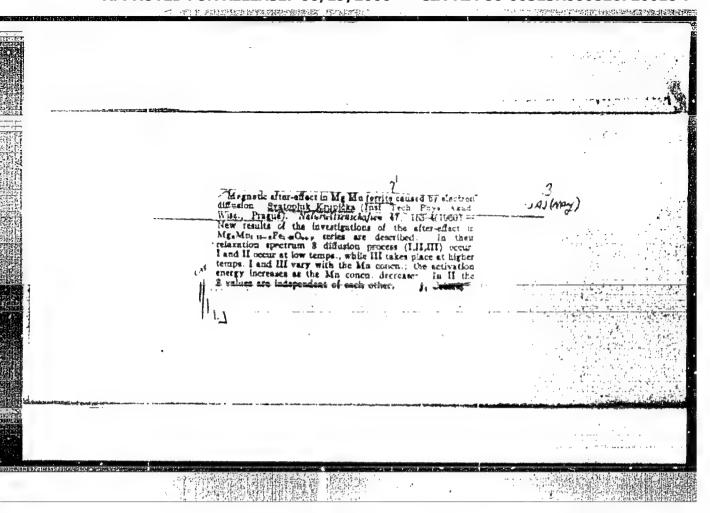
: Certain types of manganese-magnesium ferrites are used successfully in microwave technology. Physical and experimental technical data an ferrites of this type prepared in the laboratory of the Institute of Technical Physics in Czechoslovakia are reported.

Card 1/1

KRUPICKA, Svatopluk

Ferrites. Pokroky fys pew latek 5:57-110 *60. (EEAI 9:7)

1. Ustav technicke fysiky Ceskoslovenske akademie ved, Praha (Ferrates)



38:85 \$/058/62/000/004/121/160

A061/A101

17 9100

AUTHOR:

Krupička, S.

TITLE:

A note on magnetic after-effect in iron-rich ferrites

PERIODICAL: Referativnyy zhurnal, Fizika, no. 4, 1962, 46, abstract 4E401 ("Chekhosl. fiz. zh.", 1961, v, B11, no. 6, 457 - 459, English)

In continuation of a paper on the de-accomodation of MnxFe3-x04 TEXT: (RZhFiz, 1961, 8E505), where four relaxation zones, I, II, III, and IV, had been established at temperatures below -200, -50, 20, and ~180°C, respectively, deaccomodation is now studied on two ferrites, Mgo gFe2.204 and Mgo 5Fe2.504.02. The aim was that of clarifying whether Mn ions or Fe ions are responsible for relaxation. Mg ferrites were chosen because of the constant valence of Mg ions. The relaxation zones I and II are found to be absent in these ferrites, whereas III and IV show distinctly. Zone II is ascribed to Mn2+ ions, III and IV to Fe

N. Smol'kov

[Abstracter's note; Complete translation]

Card 1/1

5/196/62/000/010/008/035 E073/E155

24,7900

AUTHOR: Krupička, S.

TI TLE:

The influence of magnetic after-effect on the

rectangularity of the hysteresis loop of MgMn ferrites

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.10, 1962, 3, abstract 10 Bl7. (Czechosl. Journal of Physics, B11, no.11, 1961, 828-831). (English,

abstract in Russian)

The influence of magnetic relaxation on the TEXT: rectangularity of the hysteresis loops of Mn-Mg ferrites of two compositions was investigated. It was found so small that it cannot account for rectangular hysteresis loops in these materials. 7 references.

ASSOCIATION: In-t tekhnich. fiziki AN ChSSR, Praga

(Institute of Technical Physics, AS CzSSR, Prague)

[Abstractor's note: Complete translation.]

Card 1/1

On the role of Fe²⁺ ions and cation vacancies in the disaccomodation of ferrites. Chekhoel fiz zhurral 14 no.1:29-33 ¹⁶⁴. 1. Institute of Solid State Physics, France 6, Cukrovarnicka 6.

KRATOCHVILOVA, E.; KRUPICKA, S.; STIPNBERK, J.; ZITKA, B.

Time increase of induction in the manganese-copper ferrite with rectangular hysteresis loop. Cs cas fys 14 no. 4: 293-302 '64.

1. Institute of Solid State Physics, Czechoslovak Academy of Sciences, Prague.

Annother of V.

HOMOLKA, J., KRUPIOKA, V.

Polarographic examination of the cerebrospinal fluid. Pediat. listy 5:5, Sept.-Oct. 50. p. 279-82

1. Of the First Children's Clinic (Head-Prof. Jos. Svejcar, M. D.).

CLML 20, 3, March 1951

HOMOLKA, J; KRUPICKA, V.

Rapid determination of sodium and potassium with flame photometer for clinical needs. Cas. lek. cesk. 89 no.41:1152-1155 (CIML 20:1) 13 Oct. 1950.

1. Of the First Children's Clinic (Head--Prof. Jos. Swejcar, M. D.).

HOMOLKA, J.: KRUPICKA, V.; BOR, I.

Photometric determination of blood oxygen. Pediat. listy 6 no.2: 112-114 Mar-Apr 1951. (CLML 20:9)

1. Of the First Children's Clinic in Prague (Head--Prof. Jos. Svejcar, M.D.) and of the Second Children's Clinic in Prague (Head---Prof. J. Brdlik, M.D.).